FLEXURAL STRENGTH OF CONCRETE (Using Simple Beam with Third-Point Loading) AASHTO T 97

APPARATUS

[ ] Testing machine has a verification of calibration within the last 12 months

PROCEDURE

[ ] Test specimen turned on its side with respect to its position as molded and centered on bearing blocks
[ ] Load-applying blocks brought in contact with surface of specimen at the third points between supports
[ ] No gap greater than 0.004 in. for a 1 in. length exists between load applying blocks and support blocks and the specimen
[ ] If excessive gap exists, the specimen contact surface are ground or capped, or leather strips are used for shims
[ ] Leather shims only used when specimen surfaces in contact with blocks or supports does not exceed 0.015 in.
[ ] Leather shims, when used, are a uniform 1/4 in. thickness, 1 to 2 in. in width, and extend across the full width of specimen
[ ] Hand wheel rotated clockwise and pen kept within spiral loading track
[ ] If fracture occurs outside the middle third of beam, the test result is discarded
[ ] After test, three measurements (one at each edge and one at the center) taken to the nearest 1/16 in. to determine average width, average depth, and line of fracture. Width and depth measurements are made on beam in testing machine
[ ] Modulus of rupture of specimen determined by multiplying the maximum applied load indicated by test machine in lbf by the factor determined from the testing machine table to nearest 5 psi

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Acceptance Technician

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INDOT Date

Comments _____

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